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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,054	1	2/02/2003	David Johnston	884.B57US1	2615	
21186	7590	04/07/2006		EXAM	EXAMINER	
SCHWEGM	•	NDBERG, WOES	SSNER & KLUTH	SMITH, SHEILA B		
SUITE 1600	IKEEI		ART UNIT	PAPER NUMBER		
	MINNEAPOLIS, MN 55402			2617		

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/726,054	JOHNSTON, DAVID					
Office Action Summary	Examiner	Art Unit					
	Sheila B. Smith	2617					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTED TH	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 03 L	December 2005						
	s action is non-final.						
3) Since this application is in condition for allowa		osecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdra							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-23</u> is/are rejected.	· · · ——						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
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	<u> </u>						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a lis	t of the certified copies not receive	ed.					
A44b44.b							
Attachment(s)	. □	(DTO 440)					
1) Motice of References Cited (PTO-892) Description Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-23 rejected under 35 U.S.C. 102(e) as being anticipated by Raghavan et al. (U.
- S. Patent Publication Number 2003/0134607).

Regarding claim 1, Raghavan et al. discloses essentially all the claimed invention as set fourth in the instant application, further Raghavan et al. discloses multi-channel transceiver system. In addition Raghavan et al. discloses a method, comprising: coupling a plurality of receivers to a first frequency reference to communicate with a first station over a corresponding plurality of signal paths (which reads on paragraph 0026); and selectively coupling one of the plurality of receivers to a second frequency reference to communicate with a second station over a signal path not included in the plurality of signal paths (which reads on paragraph 0122).

Regarding claim 2, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses determining whether a quality of service provided by the second station is greater than a quality of service provided by the first station (paragraph 0026).

Regarding claim 3, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the quality of service provided by the first station includes at least one of a network type, a network capability, a network activity level, a signal strength, a bandwidth, a signal-to-noise ratio, a signal-to-interference ratio, a multipath condition, a service provider, a monetary cost, user-preferred information, and a user-preferred service (paragraph 0026).

Regarding claim 4, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses adjusting the first frequency reference to provide a reference frequency substantially equal to a reference frequency provided by the second frequency reference (paragraph 0026).

Regarding claim 5, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses handing off communications between the first station and the plurality of receivers from the first station to the second station after determining that a quality of service provided by the second station is greater than a quality of service provided by the first station (paragraph 0026).

Regarding claim 6, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses selectively coupling another one of the plurality of receivers to a third frequency reference to communicate with a third

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station over another signal path not included in the plurality of signal paths (paragraph 0026).

Regarding claim 7, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses adjusting the second frequency reference to provide a new reference frequency; and communicating with a new station using a new signal path not included in the plurality of signal paths (paragraph 0026).

Regarding claim 8, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a machine-accessible medium having associated data, wherein the data, when accessed, results in a machine performing: coupling a plurality of receivers to a first frequency reference to communicate with a first station over a corresponding plurality of signal paths (paragraph 0026); and selectively coupling one of the plurality of receivers to a second frequency reference to communicate with a second station over a signal path not included in the plurality of signal paths (paragraph 0122).

Regarding claim 9, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the plurality of receivers are configured to operate as a multiple-input, multiple-output system, and wherein selectively coupling one of the plurality of receivers to the second frequency reference further comprises: decoupling the one of the plurality of receivers from operating as a

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part of the multiple-input, multiple-output system; and coupling the one of the plurality of receivers to operate as a receiver independent from the multiple-input, multiple-output system (paragraph 0026).

Regarding claim 10, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the data, when accessed, results in the machine performing: selecting a second reference frequency to be provided by the second frequency reference based on one of an arbitrary scan process, a list of frequencies, and a location of the plurality of receivers (paragraph 0026).

Regarding claim 11, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a first reference frequency to be provided by the first frequency reference is selected in accordance with a channel designated by one of an Institute of Electrical and Electronics Engineers (IEEE) 802.11 standard or an IEEE 802.16 standard (paragraph 0026).

Regarding claim 12, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a selected one of the plurality of receivers is included in a transceiver (paragraph 0026).

Regarding claim 13, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses an apparatus, comprising: a

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plurality of receivers to couple to a first frequency reference and to communicate with a first station using a plurality of signal paths, wherein at least one of the plurality of receivers can be selectively coupled to the first frequency reference or to a second frequency reference to communicate with a second station using a signal path not included in the plurality of signal paths (paragraph 0026).

Regarding claim 14, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the plurality of signal paths comprise a portion of a multiple-input, multiple-output communication system (paragraph 0026).

Regarding claim 15, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the first frequency reference comprises a first frequency synthesizer, and wherein the second frequency reference comprises a second frequency synthesizer (paragraph 0026).

Regarding claim 16, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a determination module to determine whether a quality of service provided by the second station is greater than a quality of service provided by the first station (paragraph 0026).

Regarding claim 17, Raghavan et al. discloses everything claimed, as applied above

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(see claim 1) additionally, Raghavan et al. discloses the quality of service provided by the first station includes at least one of a network type, a network capability, a network activity level, a signal strength, a bandwidth, a signal-to-noise ratio, a signal-to-interference ratio, a multipath condition, a service provider, a monetary cost, user-preferred information, and a user-preferred service (paragraph 0026).

Regarding claim 18, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a third frequency reference, wherein at least another one of the plurality of receivers can be selectively coupled to the first frequency reference or the third frequency reference to communicate with a third station using another signal path not included in the plurality of signal paths (paragraph 0026).

Regarding claim 19, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses the plurality of signal paths comprise a portion of a multiple-input, multiple-output communication system, and wherein the signal path is a search signal path, further comprising: a third frequency reference (paragraph 0026), wherein at least another one of the plurality of receivers can be selectively coupled to the first frequency reference or the third frequency reference to communicate with a third station using a second search signal path not included in the plurality of signal paths (paragraph 0122).

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Regarding claim 20, Raghavan et al. discloses everything claimed, as applied above additionally, Raghavan et al. discloses a plurality of receivers to couple to a first frequency reference and to communicate with a first station using a plurality of signal paths, wherein at least one of the plurality of receivers can be selectively coupled to the first frequency reference or to a second frequency reference to communicate with a second station using a signal path not included in the plurality of signal paths (paragraph 0026); a processor to couple to the plurality of receivers; and a display to couple to the processor (paragraph 0122).

Regarding claim 21, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a transceiver including a selected one of the plurality of receivers (paragraph 0026).

Regarding claim 22, Raghavan et al. discloses everything claimed, as applied above (see claim 1) additionally, Raghavan et al. discloses a third frequency reference, wherein at least another one of the plurality of receivers can be selectively coupled to the first frequency reference or to the third frequency reference to communicate with a third station using another signal path not included in the plurality of signal paths (paragraph 0026).

Regarding claim 23, Raghavan et al. discloses everything claimed, as applied above

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(see claim 1) additionally, Raghavan et al. discloses a one-to-one corresponding

plurality of antennas to couple to the plurality of receivers (paragraph 0026).

Response to Arguments

2. Applicant's arguments with respect to claims 1-23 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sheila B. Smith whose telephone number is (571)272-7847. The

examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.Smith S April 3, 2006

PRIMARY EXAMINER

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Jemica M. Beama